

## **Submission of Bids**

The detailed technical specification of the equipment is mentioned below in the Bid document, Offer should be of two parts Viz., “**TECHNICAL BID**” and “**COMMERCIAL BID**” both marked with details, sealed and packed separately and send together with another cover with the marking “**BID FOR RO PLANT**”. The content of the both bids should be as under;

### **A. TECHNICAL BID should include the following:-**

1. Detailed specification of the base equipment along with the specification of accessories, which are included in the Base unit.
2. Deviation Statement
3. Product Literature
4. Performance Statement along with proof of supplies (PO copies)
5. Qualification Criteria
6. List of spare parts included (without quoting the price) which are needed upto warranty period-
7. Manufacturer's Authorization Form.
8. Any other information which the bidder would like to state about the technically of the equipment.
9. Scope of supply clearly mentioning name of each part & accessories along with Model No, Serial No and quantity/unit which shall be supplied along with the machine/equipment.
10. **The Technical Bids shall be opening on 20.01.2022 @11.00AM, after evaluation of technical bid commercial bid shall be open for the qualified bidders.**

### **B. COMMERCIAL BID should include the following:-**

1. Statement showing the price of the each items of spare parts which is mentioned in the Technical Bid (the acceptance and rejection of spare parts as per requirement will be at sole discretion of CIPET:CSTS,Bhubaneswar)
2. Conditional bids will not be accepted. The condition laid down by CIPET:CSTS,Bhubaneswar is final and binding on all bidders.
3. The quote should be in Indian Currency (INR).
4. **No separate Price should be quoted separately for the spare and service for warranty period. Hence the price should be inclusive of all spare and service cost for 03 years.**
5. CIPET:CSTS,Bhubaneswar reserves the right to accept or reject any or all tenders either in part or in full without assigning any reasons thereof.

### **C. Warranty/Guarantee**

1. The Supplier warrants that the Goods supplied under this Contract are new, unused, of the most recent or current models and incorporate all recent improvements in design and materials unless provided otherwise in the Contract. The Supplier further warrants that the Goods supplied under this Contract shall have no defect arising from design, materials or workmanship (except insofar as the design or material is required by the Purchaser's Specifications) or from any act or omission of the

supplier, that may develop under normal use of the supplied Goods in conditions obtaining in the country of final destination.

2. This warranty/guarantee shall remain valid **for 36 months including all consumables** after the Goods or any portion thereof as the case may be, have been delivered and Commissioned at the final destination indicated in the Contract.
3. The Purchaser shall promptly notify the Supplier, in writing, of any claims arising under this warranty.
4. Upon receipt of such notice, the Supplier shall, with all reasonable speed, repair or replace the defective Goods or parts thereof, without cost to the Purchaser.
5. If the Supplier, having been notified, fails to remedy the defect(s) within a reasonable period, the Purchaser may proceed to take such remedial action as may be necessary, at the Supplier's risk and expense and without prejudice to any other rights which the Purchaser may have against the Supplier under the Contract.
6. The Supplier must provide the following warranties:
  - (a) The equipment proposed is Complete in every way
  - (b) The hardware/software specification, Capabilities and performance characteristics are as stated in the bidder's proposal and accompanying documentation.
  - (c) The supplier will offer to the Purchaser all technological updates, cost reductions and facilities, which are offered to other clients, in India, during the Contract tenure.

**D. The MAINTENANCE SERVICE shall be as follows.**

1. Free maintenance services including spare & consumable shall be provided by the Supplier during the period of warranty.
2. The maximum response time for maintenance complaint from any of the destination specified in the Schedule of requirements (i.e. time required for supplier's maintenance engineer to report at the installation after a request call/email is made or letter is written) shall not exceed 24 hours.

**TERMS & CONDITIONS:**

- Installation & commissioning along with demonstration of the equipment to be done free of cost
- **Payment Terms-70% payment will be release after successfully installation & commissioning of the machine**  
**10% After completion of service for 18 months.**  
**20% After completion of service for 36 months.**
- Supplier shall arrange all items including consumables required during installation, commissioning and demonstration. However CIPET shall provide electrical point, water and air supply point near to machine area.
- **Materials to be delivered & install at CIPET: PPEC, PARADEEP, PARADIP PLASTICS PARK, SIJU, JHIMANI, JAGATSINGHPUR, PARADIP-754141.**
- Materials to be delivered in proper packing condition to avoid any transit damage.
- The bids, which are not containing the statements, mentioned above are liable to be rejected.
- Quotes received without price schedule, and deviation statement will summarily be rejected.
- Relaxation of Norms for Startup and Micro & Small Enterprises in Public Procurement on Prior Experience – Prior Turnover Criteria.

- **Period of supply & installation:** Maximum 06 weeks from the date of issue of Purchase Order, failing which liquidated damage @ 0.5% per week shall be deducted from the final payment, for each week of delay beyond the delivery period upto maximum of 2%.

### **100 LPH RO WATER PURIFIER MACHINE**

Input Raw Water Quality:

Source of Water : Bore Water

Total Dissolved Solids :  $\geq 2000$  Mg/Liter

End Water Quality:

TDS :  $< 125$  PPM TO 1000 PPM as per customer requirement

Flow Rate : To be declared by bidder

### **TECHNICAL SPECIFICATIONS**

<b>MULTI GRADE FILTER</b>	
Quantity	One No.
Type	(LCM/ PENTAIR) Vertical Pressure Vessel 13*54
Operating capacity	<b>100</b> L.P.H. or More
M.O.C.	FRP Structural With Manual Multi port valve 1 "
Filter Media	Silica Quartz Sand with Pebbles & Gravels.
Service Cycle	Whenever pressure drop across unit exceeds $0.8 \text{ kg/cm}^2$
Backwash Duration	20 – 25 minutes manual
Operating Pressure	$3.5 \text{ kg/cm}^2$
<b>SPECIAL ANTISCALANT DOSING SYSTEM</b>	
Quantity offered	One No. of Dosing Pump
Type	Electronic Diaphragm type Dosing Pump
Flow rate	0 – 5 L.P.H.
HDPE Tank Size	100 Ltr. (Provide by customer)
Operating Pressure	$1.5 \text{ kg/cm}^2$
Make	ANY REPUTED BRAND
<b>MICRON CARTRIDGE FILTER</b>	
Quantity	Two Nos. 20" jumbo
Type	Replaceable Cartridge
M.O.C. of Cartridge	Polypropylene
M.O.C. of Housing	Polycarbonate
Operating capacity	100 LPH
Micron Size	5.0 micron
Operating Pressure	$2.50 \text{ kg/cm}^2$
<b>HIGH PRESSURE PUMP</b>	
Quantity	One No.
Type	Vertical
Capacity	<b>100</b> L.P.H.
Discharge Pressure	12 – 14 $\text{kg/cm}^2$
Type of Drive	SINGLE PHASE OR III phase squirrel cage induction

	motor
Make	ANY REPUTED BRAND
<b>R.O. MODULE</b>	
Item	R.O. Module with FRP pressure tubes & R.O. Membranes.
Type of Membrane	Thin Film Composite Polyamide Spirally Wounded 4040
Operating Pressure	12 – 14 kg/cm <sup>2</sup>
Make of membranes	ANY REPUTED BRAND
No. of Membranes	1Nos. 4040
M.O.C. of Pressure Housings	FRP
Make of Pressure Housing	ANY REPUTED BRAND
No. of Pressure Housings	1 No.

#### **Scope of Supply for R.O. System**

Sl no.	Item/ Component	Qty.
<b>PRETREATMENT</b>		
1	Raw water pump	One
2	Multi Grade Filter consists of <ul style="list-style-type: none"> <li>FRP Pressure vessel with 1" multi-port valve.</li> <li>Initial charge of media.</li> <li>Frontal PVC pipe work with necessary fittings.</li> </ul>	ONE
3	Special Anti –Scalent Dosing System - Dosing Tank along with Dosing Pump	One
4	Micron Cartridge Filter (5.0 micron) in Blending Line incorporating - Micron Cartridge Filter - Micron Cartridge Housing	Two
5	High Pressure Pump with Motor	One
<b>RO MODULE</b>		
1	R.O. Module incorporating R.O. Membrane: - R.O. Pressure Tubes [M.O.C. :FRP] - R.O. Skid with Electrical Control panel Based Control panel along with Instruments	ONE Lot
2	RO Water Storage Tank ,ss make 500ltr capacity	One
<b>INSTRUMENTATION</b>		
1	Flow Indicator	Two
2	Low pressure Switch HI pressure	One
3	Pressure Gauges	Three Lot

#### **Terms & Conditions**

- 1] Control supply: 220 Volts  $\pm$  10, Single phase, 50 Hz. for all Instrumentations.
- 2] Power supply : 415 Volts  $\pm$  10, three phases, 50 Hz. for High pressure Pump & other pumps...
- 3] Service water: Flow Rate @ 100 L.P.H. at the inlet of RWP (Raw Water Pump)
- 4) PRODUCT WARRANTY: 03 Years for all parts, free replacement with service with consumable.

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